

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX021319\
 Data File : VX007502.D
 Acq On : 12 Feb 2019 23:55
 Operator : JC/SP
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

MMDadoda
 2/13/2019 11:52:49 AM

Quant Time: Feb 13 07:57:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X021319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Feb 13 07:08:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	75224	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	414143	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	372600	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	149602	30.35	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.17%
60) 4-Bromofluorobenzene	11.13	95	168909	29.48	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.27%
63) Toluene-d8	8.71	98	501860	29.88	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	389602	110.552	ug/l 97
3) Chloromethane	1.33	50	423878	108.728	ug/l 95
4) Vinyl Chloride	1.41	62	479407	109.205	ug/l 98
5) Bromomethane	1.64	94	441125	101.355	ug/l 100
6) Chloroethane	1.71	64	305299	103.317	ug/l 95
7) Trichlorofluoromethane	1.93	101	762209	104.058	ug/l 97
8) Diethyl Ether	2.19	74	301069	107.910	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	2.38	101	422574	98.501	ug/l 99
10) 1,1-Dichloroethene	2.37	96	427714	107.990	ug/l 98
11) Methyl Iodide	2.51	142	671604	107.772	ug/l 97
12) Methyl Acetate	2.78	43	554909	86.399	ug/l 99
13) Acrolein	2.30	56	523432	904.739	ug/l 99
14) Acrylonitrile	3.15	53	1335582	532.318	ug/l 99
15) Acetone	2.45	58	359047	509.813	ug/l 94
16) Carbon Disulfide	2.57	76	1179472	120.426	ug/l 100
17) Allyl chloride	2.73	41	745968	109.334	ug/l 97
18) Methylene Chloride	2.85	84	463836	102.637	ug/l 96
19) trans-1,2-Dichloroethene	3.17	96	456761	106.992	ug/l 98
20) Diisopropyl ether	3.87	45	1387154	108.682	ug/l 96
21) 1,1-Dichloroethane	3.70	63	761989	105.107	ug/l 99
22) cis-1,2-Dichloroethene	4.60	96	506754	107.427	ug/l 99
23) tert-Butyl Alcohol	3.09	59	562490	535.891	ug/l 100
24) Methyl tert-Butyl Ether	3.21	73	1475794	106.921	ug/l 99
25) Chloroform	5.22	83	808633	107.420	ug/l 98
26) Cyclohexane	5.57	56	661516	107.558	ug/l # 100
29) 1,1-Dichloropropene	5.80	75	590601	107.686	ug/l 99
30) 2-Butanone	4.70	43	1707198	524.319	ug/l 99
31) 2,2-Dichloropropane	4.59	77	479084	89.730	ug/l 99
32) 1,1,1-Trichloroethane	5.49	97	710195	109.006	ug/l 99
33) Carbon Tetrachloride	5.78	117	638104	111.291	ug/l 96
34) Benzene	6.14	78	1820133	107.210	ug/l 98
35) Methacrylonitrile	5.06	41	357472	107.037	ug/l 98
36) 1,2-Dichloroethane	6.20	62	616484	105.521	ug/l 100
37) Trichloroethene	7.21	130	525709	105.468	ug/l 97
38) Methylcyclohexane	7.46	83	686022	99.719	ug/l 99
39) 1,2-Dichloropropane	7.51	63	451065	105.883	ug/l 98
40) Dibromomethane	7.66	93	328081	106.264	ug/l 95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	7.90	83	608720	112.637	ug/l	99
42) Vinyl Acetate	3.83	43	6179224	549.875	ug/l	100
43) Ethyl Acetate	4.86	43	664962	108.047	ug/l #	82
44) Isopropyl Acetate	6.46	43	1051290	109.873	ug/l	99
45) 1,4-Dioxane	7.75	88	242327	2106.609	ug/l	99
46) Methyl methacrylate	7.77	41	524889	107.919	ug/l	99
47) n-amyl Acetate	10.90	43	940899	112.254	ug/l	95
48) t-1,3-Dichloropropene	9.04	75	660303	113.423	ug/l	97
49) cis-1,3-Dichloropropene	8.43	75	716063	110.543	ug/l	98
50) 1,1,2-Trichloroethane	9.21	97	481307	104.809	ug/l	95
51) Ethyl methacrylate	9.18	69	704258	106.981	ug/l	98
52) 1,3-Dichloropropane	9.37	76	771344	104.711	ug/l	100
53) Dibromochloromethane	9.58	129	531526	114.279	ug/l	99
54) 1,2-Dibromoethane	9.67	107	526980	106.822	ug/l	99
55) 2-Chloroethyl vinyl ether	8.32	63	1824951	515.855	ug/l	100
56) Bromoform	10.86	173	409876	115.877	ug/l	98
58) 4-Methyl-2-Pentanone	8.65	43	3334807	525.947	ug/l	100
59) 2-Hexanone	9.49	43	2542729	523.140	ug/l	100
61) Tetrachloroethene	9.33	164	520894	100.744	ug/l	98
62) Toluene	8.79	91	2012118	105.299	ug/l	99
64) Chlorobenzene	10.14	112	1283533	101.936	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.22	131	496803	110.744	ug/l	100
66) Ethyl Benzene	10.25	91	2170926	105.517	ug/l	99
67) m/p-Xylenes	10.36	106	1712699	211.386	ug/l	100
68) o-Xylene	10.70	106	830922	104.656	ug/l	98
69) Styrene	10.71	104	1356569	105.868	ug/l	99
70) Isopropylbenzene	11.02	105	2189283	104.354	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	692812	102.001	ug/l	100
72) 1,2,3-Trichloropropane	11.30	75	645547m	101.935	ug/l	
73) Bromobenzene	11.26	156	591738	101.940	ug/l	99
74) n-propylbenzene	11.36	91	2457253	104.401	ug/l	100
75) 2-Chlorotoluene	11.42	91	1429987	102.300	ug/l	98
76) 1,3,5-Trimethylbenzene	11.51	105	1791468	102.750	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	210302	113.448	ug/l	87
78) 4-Chlorotoluene	11.51	91	1666453	102.996	ug/l	99
79) tert-butylbenzene	12.07	119	1922926	102.131	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	1809041	102.476	ug/l	99
81) sec-Butylbenzene	11.94	105	2132086	101.691	ug/l	100
82) p-Isopropyltoluene	12.07	119	1922926	102.131	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	1041513	101.242	ug/l	98
84) 1,4-Dichlorobenzene	12.10	146	1049722	102.127	ug/l	99
85) n-Butylbenzene	12.39	91	1654054	102.863	ug/l	100
86) Hexachloroethane	12.60	117	340447	114.541	ug/l	95
87) 1,2-Dichlorobenzene	12.39	146	1036326	100.851	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	13.00	75	159734	115.080	ug/l	98
89) 1,2,4-Trichlorobenzene	13.65	180	720282	103.133	ug/l	100
90) Hexachlorobutadiene	13.79	225	325289	97.810	ug/l	98
91) Naphthalene	13.83	128	2293733	107.427	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	723283	104.325	ug/l	98

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(#) = qualifier out of range (m) = manual integration (+) = signals summed

